

Emerging Earth Science Technologies in Disaster Risk Management: Prototype and Assessment

Completed Technology Project (2014 - 2014)



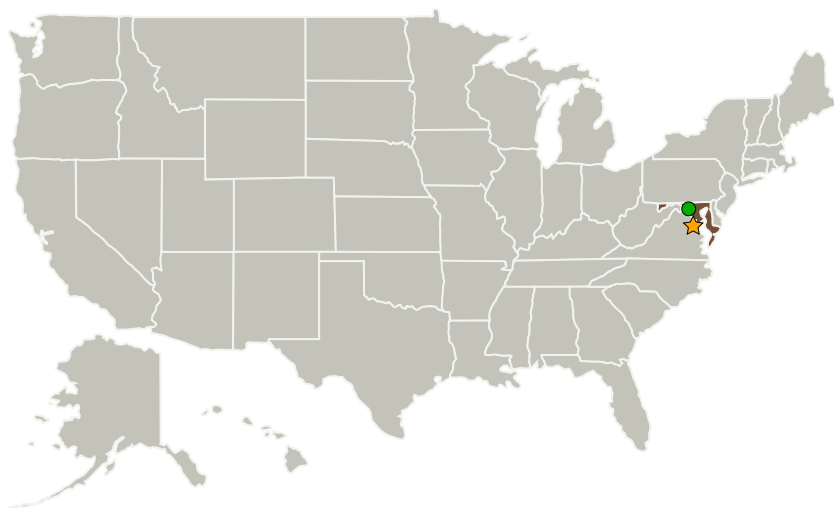
Project Introduction

Examine emerging technologies and assess their potential to dramatically change the utility and impact of satellite data for GEOSS societal benefits • Investigate the feasibility of a Volunteered Cloud Computing (VCC) concept with application to Disaster Risk Management (DRM). • Characterize the role and benefits of several emerging earth science information technologies in DRM (e.g., smallsats, mobile apps, etc.). • Provide recommendations and technology road maps for ESTO, CEOS, and GEO/GEOSS.

Anticipated Benefits

Cross-cutting

Primary U.S. Work Locations and Key Partners



ALHAT - ETD Autonomous
Landing & Hazard Avoidance
Tech Earth Science Technology
Office

Table of Contents

Project Introduction	1
Anticipated Benefits	1
Primary U.S. Work Locations and Key Partners	1
Images	2
Organizational Responsibility	2
Project Management	2
Technology Maturity (TRL)	2
Technology Areas	2
Target Destination	3

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Organizations Performing Work	Role	Type	Location
★ NASA Headquarters(HQ)	Lead Organization	NASA Center	Washington, District of Columbia
● Goddard Space Flight Center(GSFC)	Supporting Organization	NASA Center	Greenbelt, Maryland
Johns Hopkins University Applied Physics Laboratory(JHU/APL)	Supporting Organization	R&D Center	Laurel, Maryland

Primary U.S. Work Locations

Maryland

Images



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ALHAT - ETD Autonomous Landing & Hazard Avoidance Tech Earth Science Technology Office
(<https://techport.nasa.gov/image/5124>)

Organizational Responsibility

Responsible Mission Directorate:

Science Mission Directorate (SMD)

Lead Center / Facility:

NASA Headquarters (HQ)

Responsible Program:

Earth Science

Project Management

Program Director:

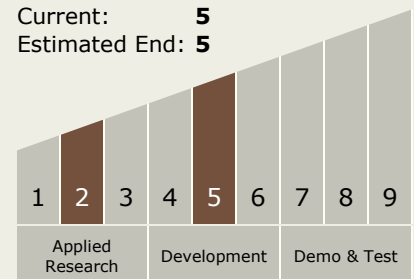
George J Komar

Principal Investigator:

John C Evans

Technology Maturity (TRL)

Start: 2
Current: 5
Estimated End: 5



Technology Areas

Primary:

Continued on following page.

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Technology Areas (cont.)

- TX11 Software, Modeling, Simulation, and Information Processing
 - └ TX11.4 Information Processing
 - └ TX11.4.2 Intelligent Data Understanding

Target Destination

Earth